

- **High Strength Stainless Steel Body** - Rigid construction to maintain tube alignment and resistance to pipe strain.
- **"Snap-in" Tube Construction** - Minimizes the downtime needed to clean the meter tube or to change the meter range.
- **Optimum Variety** - Available in 1-1/2, 3, 5, and 10 inch scale lengths and end fitting materials of brass, KYNAR® and stainless steel.
- **Internal Back check** - Restricts back flow and draining of process fluid when metering tube is removed. (Not available with outlet control valve.)
- **Control Valve** - The optional control valve provides a smooth fine degree of adjustment.
- **Versatile Flow Controller** - The optional Differential Pressure Regulator is designed to give reliable flow control regardless of changes in upstream pressure.
- **Adjustable Alarms** - Single (min. or max.) or Dual (min. & max) alarm sensors are adjustable over the entire meter range.



Series 10A6100
Purgemaster™

PURGEMASTER™

Fischer & Porter's Purgemaster Purge Meters are low capacity variable area flowmeters for both liquid and gas with an excellent selection of material and scale lengths in a single product family design. They provide optimum flexibility with minimum component proliferation. The meter features a corrosion resistant, high strength stainless steel body, quick, easy snap-in tube construction and a safety tested operator protection shield.

The Purgemaster is ideal for such applications as the purging of control lines and instrument enclosures. Their use is easily extended into fluid sampling, liquid specific gravity, and level measurement and similar services.

Engineering Specifications

Performance:

Repeatability: 0.5% of full scale reading.

Accuracy:

ACCURACY STATEMENT —Percent of Full Scale

Scale Length	Standard Accuracy	Optional Accuracy
1-1/2 (38 mm)	10%	4%
3 (75 m)	10%	4%
5 (127 mm)	2%*	1%*
10 (250 mm)	2%	1%

*Except tube number FP-1/8-038-G-6 and FP-1/8-041-G-6 which have -5% standard accuracy and -2% optional accuracy.

Rangeability: 10 to 1 or greater

Operational Limits:

Ambient Temperature Limits:

32°F to 140°F (0°C to 60°C)

Minimum Temperature: 32°F (0°C)

Minimum Pressure: Full vacuum. If vacuum conditions require a control valve, it should be in the outlet fitting.

Note:

Kalrez® is a registered trademark of E.I. DuPont Co. Teflon is a registered trademark of El. DuPont Co. Kynar® is a registered trademark of Atochem Inc.

Maximum Process Temperature and Pressure:

Temperature and pressure are interdependent but the listed combination limits must not be exceeded.

End Fitting Mat'l	Type Adaptor Mat'l	Max. Fluid Temp. °F(°C)	Maximum Fluid Pressure PSIG (kPa) Operating Temperature °F(°C)			
			<100°F (38°C)	150°F (65°C)	200°F (93°C)	250°F (120°C)
316SS	316SS	250 (120)	250 (1724)	250 (1724)	250 (1724)	250 (1724)
316SS	KYNAR	200 (93)	250 (1724)	225 (1550)	200 (1380)	---
BRASS	KYNAR	200 (93)	250 (1724)	225 (1550)	200 (1380)	---
KYNAR	KYNAR	150 (65)	200 (1380)	150 (1034)	---	---

Materials of Construction:

Meter

Tube*: Borosilicate glass

Floats*: Refer to Capacity Tables (Table I, II, III, & IV)

End Fittings*: Brass, KYNAR® 316 stainless steel

Tube Adaptor*: KYNAR® with brass and KYNAR® end fittings, 316 stainless steel or KYNAR® with stainless end fittings.

Tube Adaptor Spring*: 316 stainless steel with brass and stainless steel end fittings, Hastelloy "C" with KYNAR® end fittings.

Float Stop*: 1-1/2 and 3 inch meters 316 stainless steel with brass and stainless steel end fittings, Hastelloy "C" with KYNAR® end fittings 5 and 10 inch meter - Teflon.

Tube Rest Gasket: Teflon

O-Ring*: Buna-N when brass end fittings are specified; Viton when stainless or KYNAR® end fittings are specified.

Optional: Butyl Rubber, Ethylene Propylene Rubber and Kalrez.®

Valve Stem*: Stainless steel with brass and stainless fittings; KYNAR® tip over stainless steel (non-process wetted) with KYNAR® fittings.

Internal Back check*: Teflon

Body: 304 stainless steel

Shield: Polycarbonate

*Process wetted parts

Caution

It is important that the process wetted parts materials are compatible with the process fluid. Meter damage, with potential resulting unsafe conditions, can occur if the wrong material is used. For example, VITON O-rings MUST NEVER BE USED FOR AMMONIA SERVICE

Warning

Operating the meter without the protection shield may result in operator bodily injury.

Connections: 1/4 inch NPT, R1/4" (BSP plain) or 1/4" BSPr internal threads. Inlet and outlet fittings are horizontal and face back.

Mounting: In-line; wall or front of panel through mounting holes in back of the body; or rear of panel mounting.

Scales:

Scale Length: 1-1/2, 3, 5, and 10 inch.

Scales (on tube): As indicated in capacity tables.
(Optional metal scale for 5 and 10" rear panel mounting)

Differential Pressure Regulator¹

Body: 316 stainless steel or brass

Diaphragm: Viton (with stainless body); Buna-N (with brass body).

Ball Valve: 316 stainless steel

Springs: Type 316 stainless steel

Max Pressure: 200 psig (1380kPa) at 100°F (38°C)

Maximum Differential Pressure: 100 psi (690 kPa)

Weight (approximate)

Purge Meter only:

Pipe Connection: 1/4" NPT internal threads
R1/4" (BSP plain)
1/4" (BSPr.)

Weight (Approximation)

Purge Meter Only

Scale Length	lb	Kg
1-1/2 (38 mm)	1.0	0.45
3 (75 mm)	1.0	0.45
5 (127 mm)	1.4	0.65
10 (250 mm)	1.8	0.80

Purge Meter with Regulator: Add 2-1/2 lb (1.15kg) to weights listed above.

Note 1: When combined with a 53R2110 Differential Pressure Regulator, the PURGEMASTER can control a flow of liquid or gas that is subject to varying line pressure. However, due to gas compressibility, the true value of mass flow rate of a gas can be measured only if the downstream pressure remains constant.

Alarms

Principle of operation

The ring sensors with a bistable switching action picks up the relay in the amplifier when the ball float reaches the trigger level and remains in that position, even if the float continues to move towards the alarm zone, thus leaving the trigger level. The relay will drop out as soon as the float crosses the trigger level from the opposite direction, and moves back from the alarm zone into the normal operating range. The actual float position - above or below the trigger level - is precisely indicated.

Explosion hazardous operation is feasible, since the ring sensor used is an intrinsically safe switch with intrinsically safe circuit. Due to the relatively short metering tube, type 10A6131/41 is suitable either as a minimum or a maximum alarm. Models 10A6132/42 or 10A6133/43 are recommended if both alarm operations are required.

Design Features

- Sensor height 14 mm, therefore only small coverage of the scale.
- Integrated clamp device directly to the meter body. No automatically adjustability during operation possible.

Alarm Specifications

Ring sensor

RJ10-Bi-Y 20593 for 1/8 inch meter tubes,

RJ15-Bi-Y 20594 for 1/4 inch meter tubes

Bistable Switching Action

EEx ia IIC T6, EEx ib IIC T6

Certificate of Conformity Ex 83/2022X

FM Approved Nonincendive for Class I, Div 2

Groups A, B, C and D, and Class II, Div 1

Groups E, F, and G

Power supply requirements: approx. 10V dc

Load Current (current range): $\leq 2.9 \text{ mA}$, $\geq 4.8 \text{ mA}$

Repeatability: $\pm 1 \text{ mm}$

Self Inductance: 60 μH

Self Capacitance: 100 nF

Ambient temp. limit: 50°F (10°C) to 104°F (40°C)

Cable: 6 1/2 feet (2m) standard (max. 9800 feet (3000 m) possible)

Housing: Polycarbonate, black

Protective Class: acc. to DIN 40050 IP 67

Weight: 150 g (approximate)

Switching amplifier

Type WE 77/Exl-Bi: for each sensor

Contact rating: 250 VA or 4A at 250 V

Power consumption: approx. 3.5 VA

Supply Voltage: 110 V ac, 220 V ac - 10% + 15%,
45 - 65 Hz

Response Time: Energize approximately 20 ms,
De-energized approximately 10 ms

Output Type: Single Pole Double Throw (SPDT)

Ambient temp. limits: -13°F (-25°C) to + 140°F (+60C)

Maximum Wire Size: (2) #16 AWG

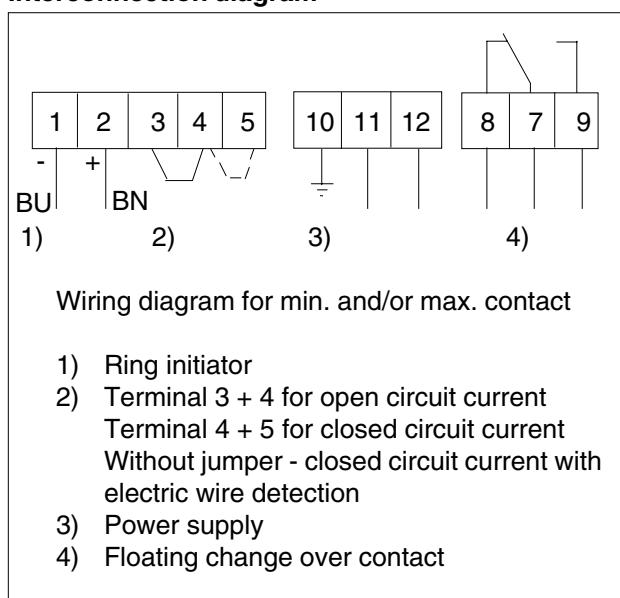
Certificate of Conformity Ex - 79/2043X, BASEEFA
approved to Ex 8024X

FM Approved for use with RJ10 - Bi - Y sensors. WE77/
Exl - Bi must be installed in a non-hazardous area. When
RJ10 - Bi - Y sensors are used with WE77/Exl - Bi
amplifiers, sensors can be installed in Class I, Div. 1 and
2, Groups A, B, C, D, E, F and G.

Housing: Polyamid

Weight: 0.7 kg (approximate)

Interconnection diagram



Ordering Information:

When ordering, please specify:

Complete model number.

Materials of construction (end fittings, regulator
body).

Maximum capacity and unit of flow.

Mounting.

Type of scale.

Accessories.

Operating conditions such as:

Fluid measured

Operating and maximum temperature

Operating and maximum pressure

Fluid density

Fluid viscosity

Caution

Glass tubes are not recommended for either hot or strong alkalies; fluorine, or hydrofluoric acid. Meter tubes should be periodically inspected for signs of wear. Erosion, stress cracks or nicks provide early warning for tube replacement. With certain fluids, the glass may erode unevenly so that wear is not visibly noticeable. If wear is suspected, the tube should be replaced.

Typical Specifications

The purge meter shall have 304 stainless steel body,
(brass) (KYNAR®) (316 stainless steel) end fittings
and (Buna-N) (Viton) O-rings.¹

The metering tube shall be easily removable for range
change or cleaning without removing the meter from
the line or without the use of tools.

Meter scale length shall be (1-1/2inches percent
only), (3 inches) (5 inches) (10 inches) with (percent)
(mm) (direct reading) scale inked directly on it.

Flow rate shall be (range and units) of (fluid) metered
at (temperature and pressure). Maximum temperature
and pressure shall be (specify).

When integral control valve is required,² Add: an
integral (stainless steel) (KYNAR®) control valve shall
be provided.

When constant Differential Pressure Regulator is required, Add: A (brass) (stainless steel) constant Differential Pressure Regulator shall be provided to maintain a constant flow rate with varying line pressures.

¹Buna-N O-rings with brass end fittings, Viton O-rings with stainless steel and KYNAR® end fitting.

² Always required with Differential Pressure Regulator

1-1/2 INCH SCALE METER

Scales (On Tube)

Standard: Percentage, for all capacities

TABLE I
1-1/2 SCALE LENGTH CAPACITIES (MAXIMUM FLOW RATES)

Liquid @ 1.0 sp. gr. & visc. 1 cps (1 mPas)		Air @ 14.7 psia & 70°F		Air @ 1013 mbar & 0°C		Metering Tube Nomenclature	Float ¹	ΔP Inches of Water
cc/min.	gph	scc/min.	scfh	ncc/min.				
0.8*#	0.013*#	65*#	0.14*#	65*#	FP-1/16-08-P-1	%o	BG	1.2
1.0*#	0.016*#	95*#	0.20*#	90*#	FP-1/16-08-P-1	%o	SA	1.3
4.0*#	0.065*#	180*#	0.38*#	170*#	FP-1/16-08-P-1	%o	SS	1.7
7.0#	0.11#	420#	0.90#	400#	FP-1/16-30-P-1	%o	BG	1.5
13.0	0.21	560	1.20	550	FP-1/16-30-P-1	%o	SA	1.7
22.0	0.34	900	1.90	850	FP-1/16-30-P-1	%o	SS	2
38.0	0.60	2100	4.40	2000	FP-1/8-21-P-1	%o	BG	2
60.0	0.95	2600	5.50	2600	FP-1/8-21-P-1	%o	SA	3.5
120.0	1.90	4000	8.50	3800	FP-1/8-21-P-1	%o	SS	7.5
190.0	3	8000	17	8000	FP-5/32-40-P-1	%o	BG	14
450.0	7	15000	32	15000	FP-5/32-40-P-1	%o	SS	50
850*	13.5*	28000*	60*	28000*	FP-1/2-28-P-1	%o	SS	100
1600*	25*	48000*	100*	45000*	FP-1/4-41-P-1	%o	SS	210
2200*##	34*##	70000*##	150##*	70000*##	FP-1/4-41-P-1	%o	CA	475

* Not available with 53RB-T 2110 regulator

Specify low capacity valves for all stainless steel & brass end fittings
Specify standard capacity valves for KYNAR end fittings.

Specify high capacity valves for all stainless steel & brass end fittings
Specify standard capacity valves for KYNAR end fittings.

1 Key to float nomenclature; BG = black glass; SS = stainless steel; SA = sapphire; CA = carbolloy

3 INCH SCALE METER

Scales (On Tube)

Standard: Percentage, for all capacities

Optional: See Capacity Table II for available standard direct reading scales.

Optional direct reading-other than shown on Table II.

TABLE II
3 SCALE LENGTH CAPACITIES (MAXIMUM FLOW RATES)

Liquid @ 1.0 sp. gr.		Maximum Capacities ² Air @ 14.7 psia & 70°F			10 psig @ 70°F	Pressure Drop Across Meter with Valve-Wide Open		Tube	Float ¹
cc/min.	gph	scc/min.	scfh	scfm	scfh	Inches H ₂ O	KPa		
4.6	0.07	380	0.8	---	---	1.4	0.35	FP-1/8-08-P-3	BG
20	0.32	900	1.9	---	2.5	2.2	0.55	FP-1/8-08-P-3	SS
29	0.46	1600	3.4	---	---	2.5	0.62	FP-1/8-20-P-3	BG
90	1.4	3200	7.0	---	---	5.0	1.2	FP-1/8-20-P-3	SS
150	2.4	7000	15	---	---	8.3	2.1	FP-1/4-15-P-3	BG
240	3.8	10500	22	---	--	18.0	4.5	FP-1/4-20-P-3	BG
400	6.5	13000	27	---	---	25.0	6.2	FP-1/4-15-P-3	SS
580	9.0	19000	40	---	---	55.0	13.7	FP-1/4-20-P-3	SS
1250*	20*	40000*	85*	--	---	222.0	54.7	FP-1/4-41-G-3	SS
1800*	29*	56000*	120*	2*	---	425.0	105.7	FP-1/4-41-G-3	CA

* These capacities are not available with flow regulator

1 Key to float nomenclature: BG = black glass; SS = stainless steel; SA = sapphire; CA = carbolloy

2 Specify standard capacity valves for all capacities and all materials.

5 Inch Scale Meter

Scales (On Tube)

Standard: Millimeter scales with standard air and water curves

Optional: See Capacity Table III for available standard direct reading scales.

Optional direct reading - Other than shown on Table III. Percent scale considered as non-standard direct reading.

**TABLE III
5 SCALE LENGTH CAPACITIES (MAXIMUM FLOW RATES)**

Maximum Capacities

Liquid @ 1.0 sp. gr.	Air @ 14.7 psia & 70°F	Tube	Float
cc/min.	scc/min.		
0.65*#	55*#	FP-1/8-038-G-6	BG
1.06*#	78*#	FP-1/8-041-G-6	BG
2.05*#	128*#	FP-1/8-041-G-6	SA
3.3*#	185*#	FP-1/8-038-G-6	SS
4.7*#	250*#	FP-1/8-041-G-6	SS
6.0#	390#	FP-1/8-08-G-5	BG
10.8#	540#	FP-1/8-08-G-5	SA
14.0	720	FP-1/8-12-G-5	BG
22.5	1080	FP-1/8-16-G-5	BG
35.0	1450	FP-1/8-16-G-5	SA
43.0	1950	FP-1/8-25-G-5	BG
61	2150	FP-1/8-16-G-5	SS
82	2900	FP-1/8-20-G-5	SS
88	4100	FP-1/4-10-G-5	BG
110	3800	FP-1/8-25-G-5	SS
170	7400	FP-1/4-16-G-5	BG
225	9600	FP-1/4-20-G-5	BG
300	12600	FP-1/4-25-G-5	BG
420	14500	FP-1/4-16-G-5	SS
scfh			
550	39	FP-1/4-20-G-5	SS
570	49	FP-1/4-40-G-6	BG
720	50	FP-1/4-25-G-5	SS
1060*	70*	FP-1/4-25-G-5	CA
1340*	96*	FP-1/4-40-G-6	SS
2000*##	135*##	FP-1/4-40-G-6	CA

- * Not available with 53RB/T 2110 regulator
- # Specify low capacity valves for all stainless steel & brass end fittings.
Specify standard capacity valves for KYNAR end fittings.
- ## Specify high capacity valves for all stainless steel & brass end fittings.
Specify standard capacity valves for KYNAR end fittings.

10 Inch Scale Meter

Scales (On Tube)

Standard: Millimeter scales with standard air and water curves

Optional: See Capacity Table IV for available standard direct reading scales.

Optional direct reading - Other than shown on Table IV. Percent scale considered as non-standard direct reading.

**TABLE IV
10 SCALE LENGTH CAPACITIES (MAXIMUM FLOW RATES)**

Maximum Capacities

Liquid @ 1.0 sp. gr.	Air @ 14.7 psia & 70°F	Tube	Float
cc/min.	scc/min.		
6.0#	365#	FP-1/8-077-G-10	BG
10.4#	510#	FP-1/8-077-G-10	SA
	scfh		
16.4	1.8	FP-1/8-13.3-G-10	BG
21.2	1.7	FP-1/8-077-G-10	SS
28.0	2.4	FP-1/8-13.3-G-10	SA
44.0	3.7	FP-1/8-13.3-G-10	SS
48.5	4.6	FP-1/8-32-G-10	BG
73.0	6.0	FP-1/8-32-G-10	SA
91.0	9.2	FP-1/4-10-G-10	BG
122	9.3	FP-1/8-32-G-10	SS
184	13.8	FP-1/8-32-G-10	CA
224	20	FP-1/4-19-G-10	BG
365	25	FP-1/4-10-G-10	CA
535	37.5	FP-1/4-19-G-10	SS
590	52.2	FP-1/4-40-G-10	BG
800*	53.5*	FP-1/4-19-G-10	CA
1300*	92*	FP-1/4-40-G-10	SS
1880*##	132*##	FP-1/4-40-G-10	CA

* Not available with 53RB/T 2110 regulator

Specify low capacity valves for all stainless steel & brass end fittings.

Specify standard capacity valves for KYNAR end fittings.

Specify high capacity valves for all stainless steel & brass end fittings.

Specify standard capacity valves for KYNAR end fittings.

Model Number Designation

PURGEMASTER Flowmeter

10A61

Process Connection

1/4" NPT	3
R 1/4"	4
1/4" BSPtr.	5
Specials	Z

Meter Tube, Scale Length

3" scale	1
5" scale	2
10" scale	3
1-1/2" scale	4
3" Trogamid (Not available w/Regulator)	5

Valve Location (Note 1)

Without Valve	A
Outlet Valve, Std. Capacity	M
Inlet Valve, Std. Capacity	N
Outlet Valve, Low Capacity	C
Inlet Valve, Low Capacity	D
Outlet Valve, High Capacity	E
Inlet Valve, High Capacity	F

Design Level

Tube Size

1/8"	1
1/4"	2
1/16" (Only w/ 1-1/2" and 5" length)	3
5/32" (Only w/1-1/2" length)	4

Materials of Construction

Fittings/O-Rings/Adaptors

316ss/Viton/ss	B
Brass/Buna/Kynar	C
*Kynar/Viton/Kynar (NPT only)	D
*316ss/Buna/ss	E
*Brass/Viton/Kynar	F
*Kynar/Buna/Kynar (NPT only)	G
316ss/Viton/Kynar	H
*316ss/Buna/Kynar	J
*Brass/EPR/Kynar	K
*316SS/EPR/SS	L
Special	Z

*Not available with Regulator

Mounting (Meter & Regulator)

In-Line (Pipe)	1
Wall Mount	2
Rear Panel Mount	3
Front Panel Mount	4
Laboratory Stand	5
Front Panel Mount with Adaptor Plate	6
Front Panel Mount with End Cap	7
Front Panel Mount with Adapter Plate and End Cap	8

Regulator Piping

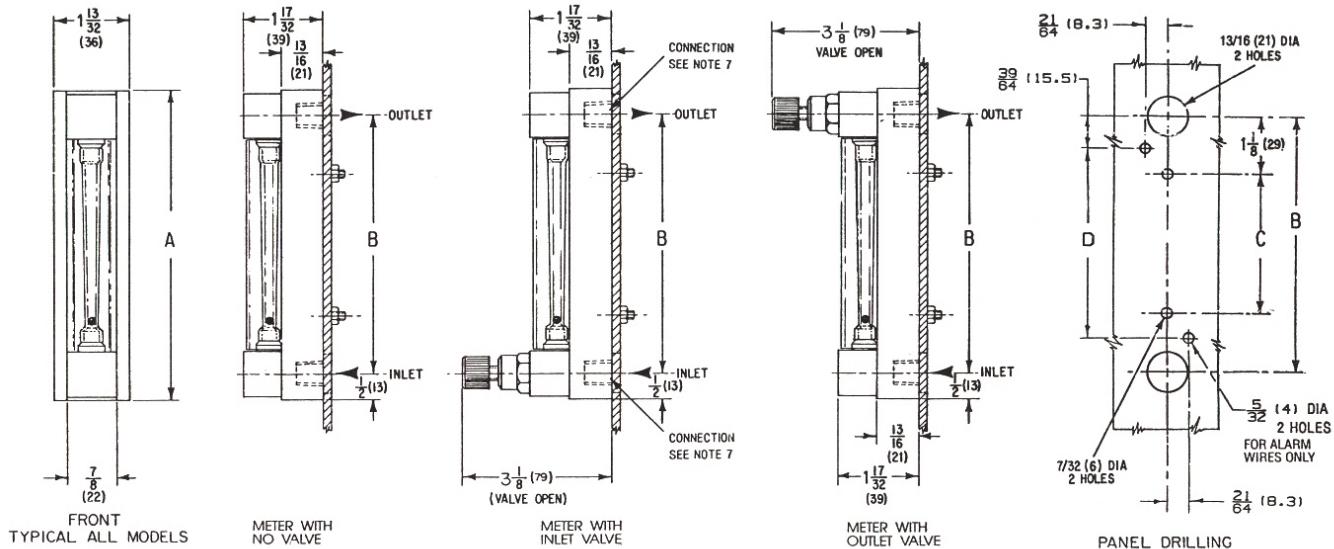
No Regulator	X
Stainless Steel	A
Brass	B

PURGEMASTER Flowmeter	<u>10A61XXXXXXX</u>	A
Alarm Option* (Includes Ring Sensor)		
(Not available with 1-1/2" size. 1/8 and 1/4" diameter tube only		
Not Required	00	
Minimum Alarm	10	
Maximum Alarm	20	
Minimum & Maximum Alarm (5 & 10" Tubes Only) ..	30	
Modified for Alarms without Sensor or Relay	90	
*Must use Metallic Floats, SS, Ca		
Connection Accessories (R1/4" only)		
Not Required	A	
Hose, R1/4", 6-7mm I.D., Brass	B	
Hose, R1/4", 9-10 mm I.D., Brass	C	
Hose, R1/4", 6mm I.D., ss	D	
Hose, R1/4", 8mm I.D., ss	E	
Hose, R1/4", 10mm I.D., ss	F	
Male Tube Connector , R1/4" 6mm O.D., Brass.....	G	
Male Tube Connector , R1/4" 8mm O.D., Brass.....	H	
Male Tube Connector, R1/4" 6mm O.D., ss	K	
Male Tube Connector, R1/4" 8mm O.D., ss	J	
Fischer & Porter Logo Tag	A	
Language		
English	E	
German	G	
Alarm Relay (Power Requirements)		
Not Required	X	
110 Vac	3	
220 Vac	4	
External Metal Scale (Rear Panel Mount. 5 & 10" Only)		
Not Required	B	
Required	C	
Calibration		
Standard Accuracy ($\pm 10\%$, 1-1/2 & 3" scale $\pm 2\%$, 5 & 10" scale) Except 1/16-G5 Tubes, 1/8-038-G6 & 1/8-041-G6 are $\pm 5\%$)	1	
Calibrated Accuracy ($\pm 4\%$, 1-1/2 and 3" Scale)	2	
Calibrated Accuracy ($\pm 1\%$, 5 & 10" Scale Except 1/16-G5 tubes, 1/8-038-G6 & 1/8-041-G6 are $\pm 2\%$)	3	
Scales		
Not Required	X	
Direct Reading (Standard Scales listed in Spec Sheet)	B	
Direct Reading (Special Scales)	C	
Millimeter	D	
Percent (Standard capacities 1-1/2 & 3" Scales)	E	
Dt/Df	F	
Percent (5" and 10" Scales)	Z	
Standard Ranges		
2.5 scfh Air @ 10psig & 70°F (3" Only)	3XA	
2.0 scfm Air @ 14.7psia & 70°F (3" Only)	3XE	
240 cc/min Water (3" Only)	3AD	
Other (Supply 3 Digit Code or leave blank for factory sizing)	XXX	

Notes:

1. Process connections in R1/4, 1/4"BSPtr and specials, DVGW valves and low and high capacity valves are not available in KYNAR. DVGW valves available upon request.

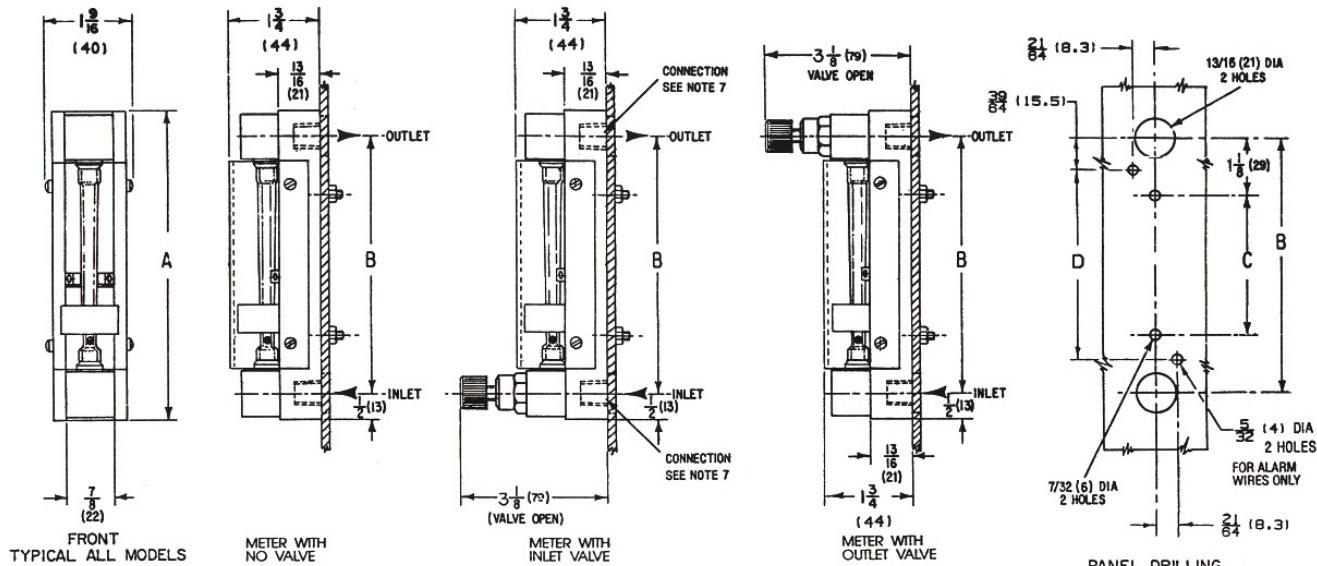
DIMENSIONS



NOM Scale Length	A		B		C		D	
Inch mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
1-1/2 38	4-3/4	121	3-23/32	94	1-15/32	37	---	---
3 76	5-15/16	151	4-15/16	125	2-11/16	68	3-23/32	94
5 127	10-3/8	264	9-3/8	238	7-1/8	181	8-5/32	207
10 254	14-13/16	376	13-13/16	351	11-9/16	294	12-19/32	320

Note:

- Dimensions are in inches, unless otherwise specified.
- Dimensions in parentheses () are in millimeters.
- All dimensions subject to manufacturing tolerance of $\pm 1/8$ inch (3mm) unless otherwise specified.
- Dimensions guaranteed only if this print is certified.
- To panel mount meter, white background must be removed to gain access to holes in backplate. Use #8 flat head screws.
- This drawing is third angle projection as shown.
- Connections are available in 1/4 NPT, R1/4 BSP & 1/4 BSPT.

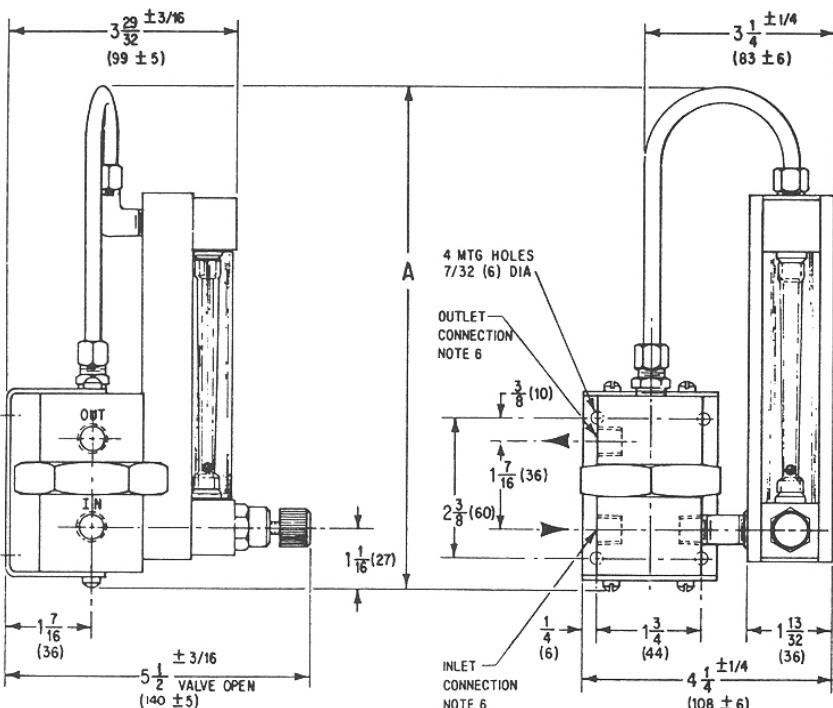


NOM Scale Length	A		B		C		D	
Inch mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
3 76	6-15/16	151	4-15/16	125	2-11/16	58	3-23/32	94
5 127	10-3/8	264	9-3/8	238	7-1/8	181	8-5/32	207
10 254	14-13/16	376	13-13/16	351	11-9/16	294	12-19/32	320

Note:

- Dimensions are in inches, unless otherwise specified.
- Dimensions in parentheses () are in millimeters.
- All dimensions subject to manufacturing tolerance of $\pm 1/8$ inch (3mm) unless otherwise specified.
- Dimensions guaranteed only if this print is certified.
- To panel mount meter, white background must be removed to gain access to holes in backplate. Use #8 flat head screws.
- This drawing is third angle projection as shown.
- Connections are available in 1/4 NPT, R1/4 BSP & 1/4 BSPT.

FIGURE 3
WALL MOUNT PURGEMASTER WITH REGULATOR



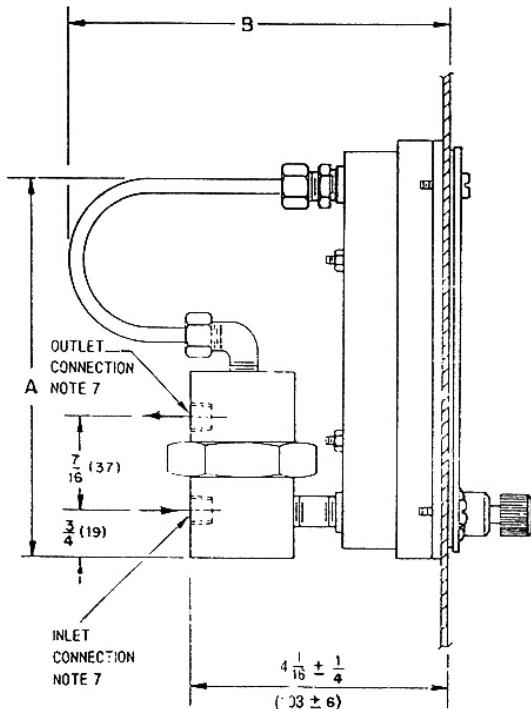
Dwg. No: OD-10-2713

NOM Scale Length		A	
Inch	mm	Inch	mm
1-1/2	38	7-1/2	190
3	76	8-7/8	225
5	127	13-5/16	338
10	254	17-3/4	451

Notes:

1. Dimensions are in inches, unless otherwise specified.
2. Dimensions in parentheses () are in millimeters.
3. All dimensions subject to manufacturing tolerance of $\pm 1/8$ inch (3mm), unless otherwise specified.
4. Dimensions guaranteed only if this print is certified.
5. For outline dimensions of meter, see dwg. no. C-OD-10-2711 & OD-10-2750.
6. Connections are available in 1/4 NPT, R1/4 BSP & 1/4 BSPT.

FIGURE 4
REAR PANEL MOUNT PURGEMASTER WITH REGULATOR



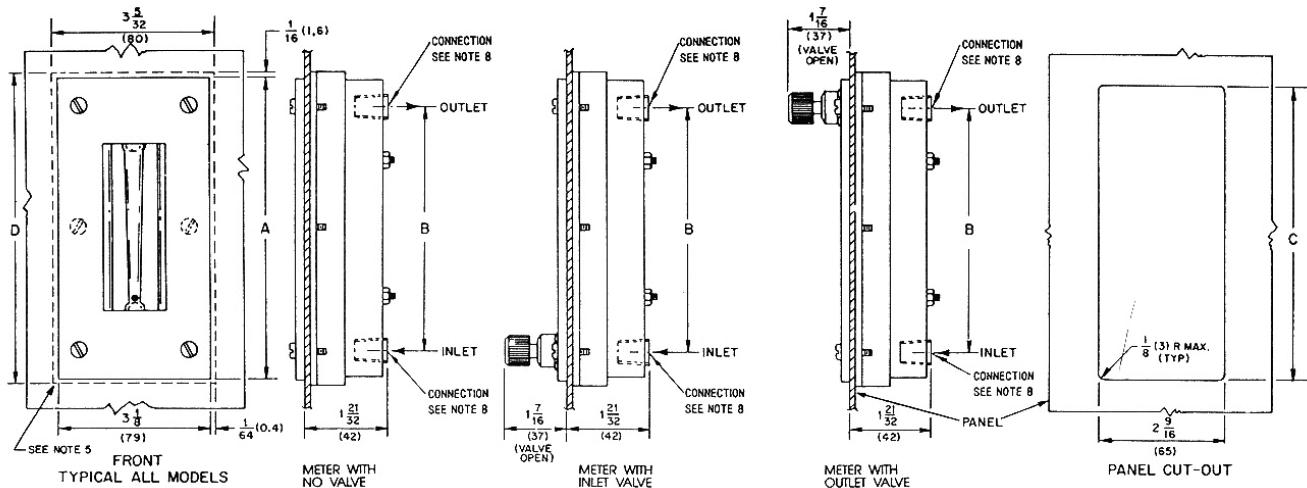
Dwg. No: OD-10-2716

NOM Scale Length		A		B	
Inch	mm	Inch	mm	Inch	mm
1-1/2	38	5-7/8	149	5-7/8-1/4	149-6
3	76	5-7/8	149	5-7/8-1/4	149-6
5	127	10-1/4	260	4-21/32-1/4	118-6
10	254	14-11/16	373	4-21/32-1/4	188-6

Notes:

1. Dimensions are in inches, unless otherwise specified.
2. Dimensions in parentheses () are in millimeters.
3. All dimensions subject to manufacturing tolerance of $\pm 1/8$ inch (3mm), unless otherwise specified.
4. Dimensions guaranteed only if this print is certified.
5. For outline dimensions of meter and panel cut-out, see dwg. no. OD-10-2715.
6. Panel hardware for max 5/16 panel.
7. Connections are available in 1/4 NPT, R1/4 BSP & 1/4 BSPT.

FIGURE 5
REAR PANEL MOUNTING OF PURGEMASTER



Nom Scale Length		A		B		C		D	
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
1-1/2	38	4-31/32	126	3-23/32	94	4-27/32	123	5-3/32	129
3	76	6-3/16	157	4-15/16	125	6-1/16	154	6-5/16	160
5	127	10-5/8	270	9-3/8	238	10-1/2	267	10-3/4	273
10	254	15-1/16	383	13-13/16	351	14-15/16	379	15-3/16	386

Notes:

- Dimensions are in inches, unless otherwise specified.
- Dimensions in parentheses () are in millimeters.
- All dimensions subject to manufacturing tolerance of $\pm 1/8$ inch (3mm), unless otherwise specified.
- Dimensions guaranteed only if this print is certified.
- Dotted line indicates rear of panel clearance requirements.
- Panel hardware for max 5/16 panel.
- This drawing is third angle projection as shown.
- Connections are available in 1/4 NPT, R1/4 BSP & 1/4 BSPT.

FIGURE 6
ALARM RING SENSOR

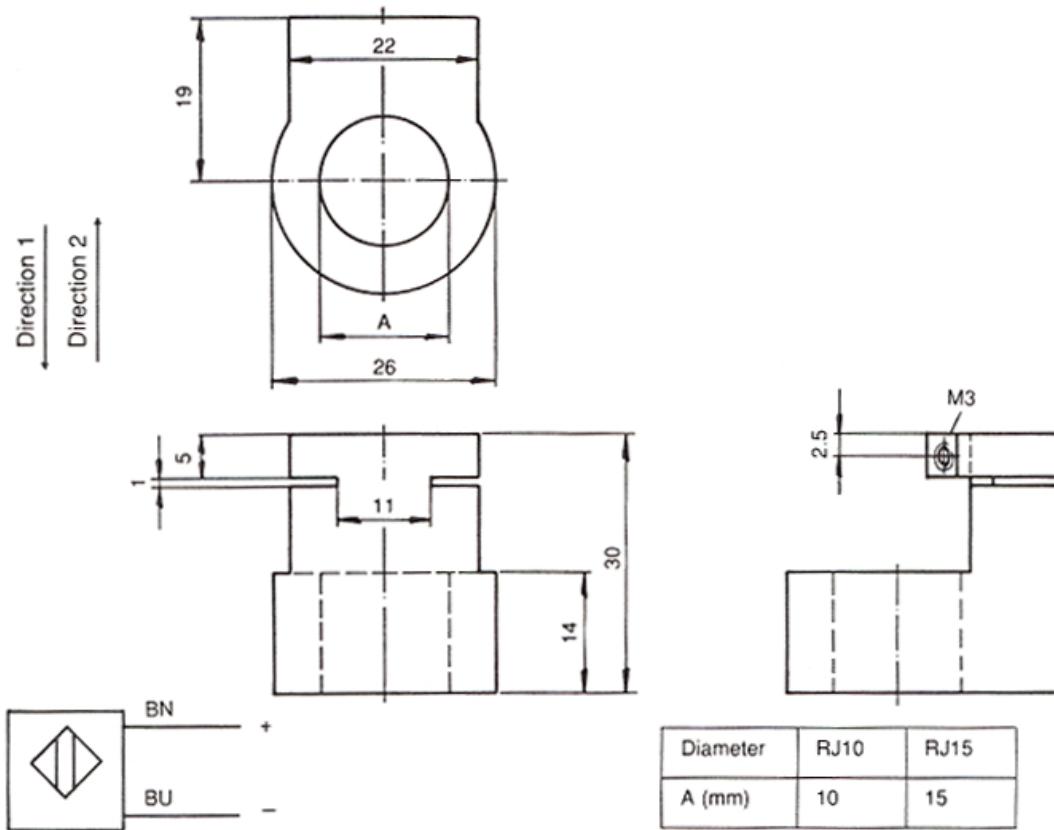
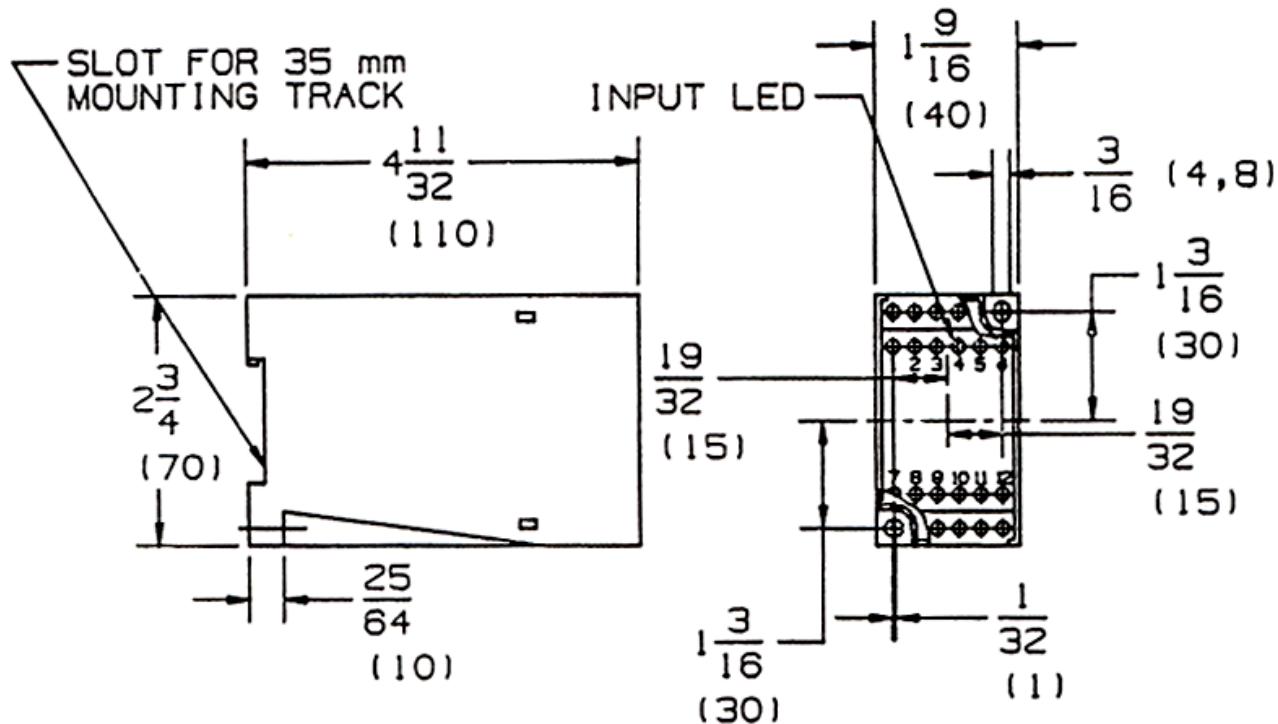


FIGURE 7
ALARM, SWITCHING AMPLIFIER



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